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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/083,967	02/25/2002	Nobuyuki Kambe	2950.51US02	6998
24113	7590 07/05/2005		EXAM	INER
	N, THUENTE, SKA	CAIN, ED	CAIN, EDWARD J	
4800 IDS CE 80 SOUTH 8'			ART UNIT	PAPER NUMBER
MINNEAPOLIS, MN 55402-2100			1714	

DATE MAILED: 07/05/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Office Action Commons	10/083,967	KAMBE ET AL.				
Office Action Summary	Examiner	Art Unit				
	Edward J. Cain	1714				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) ⊠ This	action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-28,78 and 79</u> is/are pending in the application.						
4a) Of the above claim(s) <u>24-28</u> is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>78</u> is/are allowed.						
6)⊠ Claim(s) <u>1-8,10,12-14,16-22 and 79</u> is/are rejected.						
7) Claim(s) <u>9,11,15 and 23</u> is/are objected to.						
8) Claim(s) 1-28, 78 and 79 are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date. Draftsperson's Patent Drawing Review (PTO-948)						
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Information Disclosure Statement(s) (PTO-152) Other:						
U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04) Office Ac	tion Summary	Part of Paper No./Mail Date 0605				

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Restriction to one of the following inventions is required under 35 U.S.C. 121:

 Claims 1-23 and 78-79, drawn to non-linear optical structures, classified in class 136, subclass 263.

II. Claims 24-28, drawn to polymeric compositions, classified in class 524, subclass 439.

Inventions Group I and Group II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed because the structures of group I could be fabricated using non-polymeric optical material. The subcombination has separate utility such as an electrically conducting composite for various utilities.

Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.

Applicant is reminded that upon the cancellation of claims to a non-elected invention, the inventorship must be amended in compliance with 37 CFR 1.48(b) if one or more of the currently named inventors is no longer an inventor of at least one claim

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remaining in the application. Any amendment of inventorship must be accompanied by a request under 37 CFR 1.48(b) and by the fee required under 37 CFR 1.17(i).

During a telephone conversation with Mr. Dardi on 6/20/05 a provisional election was made with traverse to prosecute the invention of Group I, claims 1-23 and 78-79.

Affirmation of this election must be made by applicant in replying to this Office action.

Claims 24-28 are withdrawn from further consideration by the examiner, 37

CFR 1.142(b), as being drawn to a non-elected invention.

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-8, 10, 12-14, 16-22 and 79 are rejected under 35 U.S.C. 102(b) as being anticipated by Hiraoka et al.

Hiraoka et al disclose non-linear optical devices produced utilizing polymeric compositions comprising conducting or semi-conducting particles in the size range of 1-50 nm. Among the particles disclosed are metals and doped materials. The devices are taught as including waveguides wherein the polymeric compositions are used in the core and a polysiloxane with a dissimilar refractive index is used as cladding (see the discussion at column 5). Applicants' claimed refractive index difference is seen as inherent to the device of the reference since "greatly different" refractive indices are desirable (column 5, lines 27-28).

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Therefore the reference anticipates the rejected claims.

Claims 9, 11, 15 and 23 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Claim 78 is allowed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward J. Cain whose telephone number is (571) 272-1118. The examiner can normally be reached on M-F from 10:0 to 6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Vasu Jagannathan, can be reached on 571 272-1119. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Edward J. Cain Primary Examiner

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